

Course Title: Cybersecurity for Data Science			
Course Code: UDS 203	No. of credits: 3	L-T-P: 24-13-16	Learning hours: 45
L: Lectures; T: Tutorials; P: Practical			
Pre-requisite Course Code and Title (if any): None			
Department: Natural and Applied Sciences			
Course Coordinator:		Course Instructor:	
Contact Details:			
Course Type: Major		Course Offered in: Semester 3	
Course Description This course encompasses a comprehensive introduction to the fundamental concepts of cybersecurity and data analytics with a focus on safeguarding digital assets, understanding cyber threats, and utilizing data science techniques for security purposes. Students will explore the basics of cybersecurity, various types of threats and attacks, network security principles, cryptographic techniques for secure communication, and the role of data analytics in ensuring internet security. Additionally, the course will delve into the identification of cybercrimes in mobile and wireless devices using data science approaches and exploring cybersecurity countermeasures for mitigating cyber threats and vulnerabilities.			
Course Objectives <ul style="list-style-type: none"> • To understand the basic concepts of cybersecurity, threats, and attacks • To explore cryptographic approach to safeguard communication • To illustrate significance of data analysis for ensuring security of wireless devices 			